

## Accurate Phase Length Measurements of Large Microwave Networks (1966 [MWSYM])

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*J.N. Weaver and R. Alvarez. "Accurate Phase Length Measurements of Large Microwave Networks (1966 [MWSYM])." 1966 G-MTT International Microwave Symposium Digest 66.1 (1966 [MWSYM]): 76-82.*

Electrical phase length measurements and adjustments on long wave guide or coaxial feed lines are necessary sometimes in antenna arrays and particle accelerators. Most of the commonly used phase length measurements schemes are of a transmission or reflection type and may use a modulated signal. Transmission methods usually require a precision reference length to reach both ends of the network, while reflection methods require only a stable reflector, but inherently cannot resolve 180° /spl oslash/ differences.

 [Return to main document.](#)